



-44-

08-060,463

ABSTRACT

The present invention relates to a method for detecting multiple DNA sequences simultaneously. The 5 method involves amplification of multiple sequences simultaneously by annealing a plurality of paired oligonucleotide primers to single stranded DNA. One member of each pair is ~~complimentary~~ complementary to the sense strand of a sequences and the other member is ~~complimentary~~ complementary to a 10 different segment of the anti-sense strand of the same sequence. The amplification occurs by alternately annealing and extending the primers. The invention also includes oligonucleotide primer sequences helpful in detecting genetic diseases and/or exogenous DNA sequences.

15

20

25

30

35